

California Regional Water Quality Control Board

Santa Ana Region

Internet Address: http://www.swrcb.ca.gov/~rwqcb8 3737 Main Street, Suite 500, Riverside, California 92501-3339 Phone (909) 782-4130 • FAX (909) 781-6288 Gray Davis

April 2, 1999

Mr. Wayne D. Lee Assistant Chief of Staff Environment and Safety Marine Corps Air Station El Toro P. O. Box 95001 Santa Ana CA 92709-5001

SUBJECT:

CLOSURE OF UNDERGROUND STORAGE TANK (UST) CASE REFUELING AND VEHICLE MAINTENANCE SHOP, USTS 672 & 672B BUILDING 672, MARINE CORPS AIR STATION, EL TORO

CASE NO. 083003209T

Dear Mr Lee:

This letter confirms the completion of the site investigation and remedial action which were needed to mitigate the releases from the underground storage tanks formerly located at the above described location. Enclosed is the Case Closure Summary for the referenced site for your records.

Two USTs were removed and discolored soil was observed on the southwest and northwest sidewalls of the excavation. Three hand-auger borings were drilled to 20 feet deep. Based on the analytical results of the soil sampling, additional petroleum contaminated soil (200 yds³) was removed down to approximately 18 feet below grade. Nine confirmation soil samples were collected. Soil samples were analyzed by EPA method 8015m for TPH and method 8020 for BTEX. One sample was analyzed using the Synthetic Precipitation Leaching Procedure (SPLP). The excavation was backfilled with clean stockpiled soil, imported fill sand and road base material and compacted.

Five soil borings were drilled in the vicinity of the excavation to determine the vertical extent of the petroleum hydrocarbons in the soil. Two soil borings were drilled to 40 feet deep and three were drilled to 80 feet deep. Soil samples were collected and submitted for analysis. Groundwater was not detected at 80 feet. The remaining petroleum concentrations do not appear to be a threat to groundwater.

California Environmental Protection Agency



Based on the information in the March 12, 1998 <u>Tank Removal and Site Closure Report for USTs 672 and 672B</u>, and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground storage tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, California Code of Regulations, Division 3, Chapter 16, Section 2721 (e).

Please telephone Patricia Hannon at (909) 782-4498 if you have any questions regarding this matter.

Sincerely,

Gerard J. Thibeault Executive Officer

Attachment: Case Closure Summary

Xt V Still

cc w/ attachment:

Dept. of Toxic Substances Control - Tayseer Mahmoud

Kutak Rock, Attorneys - Gregory F. Hurley

Marine Corps Air Station El Toro - Capt. Jeff Matthews

Naval Facility Engineering Command, SWDIV - Lynn Hornecker Orange County Hall of Administration - Courtney Wiercioch Orange County Health Care Agency - Arghavan Rashidi-Fard

State Water Resources Control Board - John Adams

U. S. EPA, Region IX - Glenn Kistner

CASE CLOSURE SUMMARY

Leaking Underground Fuel Tank Program

I. Agency Information

DATE:	March	31,	1999
-------	-------	-----	------

AGENCY NAME	California Regional Water Quality Control Board - Santa Ana Region	STAFF	Patricia Hannon		
ADDRESS	3737 Main St. Suite 500	TITLE	Associate Engineering Geologist		
CITY/STATE/ ZIP	Riverside CA 92501-3339	PHONE	(909) 782-4498, main # 782-4130		

II. Case Information

SITE NAME	Refueling and	Refueling and Vehicle Maintenance Shop, UST Site 672 and 672B						
LOCATION	Bldg 672, MC	Bldg 672, MCAS El Toro						
REGIONAL I	REGIONAL BOARD CASE # 083003209T LOCAL AGENCY CASE # NA							
RESPONSIBLE PARTIE ADDRESS PHONE						PHONE NUMBER		
USMCAS El contact: Wa Environment	yne D. Lee, Assistan	t Chief of Staff	P.O. Box 95000 Santa Ana, CA 92709-5000					
TANK NO. SIZE IN GALLONS CONTENTS CLOSED				CLOSED IN PLACE/ REMOV	/ED	DATE		
672	100	diesel		removed		1/29/97		
672B	1000	JP-5	JP-5 removed			1/29/97		

III. Release and Site Characterization Information

MONITORING WEL	LS IN	ISTAL	LED?	no	NUN	MBER		NA	PROF	PER	SCREEN I	NTERVAL?		NA
DEEPEST GW DEPTH NA SHALLOWEST GW DEPTH 83 ft. (well 08UGMW29 located ~300 ft. away))							
GROUNDWATER, MOST SENSITIVE CURRENT USE: municipal GW FLOW DIRECTION northwest							est							
DRINKING WATER	WEL	L(S) A	FFECT	ED?	no	AQI	JIF	ER N	AME			Irvine Pre	ssure	
IS SURFACE WATI	ER AF	FECT	ED?	n	10	NEAR	ES	T/AFF	ECTE) SI	W NAME	na		
OFF-SITE BENEFIC	OFF-SITE BENEFICIAL USE IMPACTS (ADDRESSES/LOCATIONS): none													
REPORT(S) ON FILE? yes WHERE IS/ARE REPORT(S) FILED? R.W.Q.C.B Santa Ana Region														
TREATMENT AND	TREATMENT AND DISPOSAL OF AFFECTED MATERIAL													
MATERIAL	AMO	TNUC	AC	ACTION (TREATMENT, DISPOSAL)/ DESTINATION DATE										
TANK/PIPING	2 ta	nks,		Piping was abandoned in place. USTs were sent to the Defense Reutilization and Marketing Office for recycling.										
FREE PRODUCT	none			70.100	71000	1241011	<u> </u>	1410111	ourig C	71110	o to: Tooyom	9.		
SOIL	247	yds³	Tr	Treated at the Station's bioremediation treatment facility 1997					_					
GROUNDWATER	none	е											·	•

Case Closure Summary

Site Name: UST Site 672 and 672B, Bldg 672, MCAS El Toro

Date: March 31, 1999 Case #: 083003209T

III. Release and Site Characterization Information (Continued)

Maximum Document Contaminant Concentration - Before and After Cleanup							
CONTAMINANT	so	IL (mg/kg)	WATER (μg/L)				
	INITIAL	FINAL	INITIAL	CURRENT			
BENZENE	0.528	2.9 (29.5 ft.)	NA	NA			
TOLUENE	3.3 (5ft)	0.270	NA	NA			
ETHYLBENZENE	7.8 (10 ft.)	16 (29.5 ft.)	NA	NA			
XYLENE	39 (10 ft.)	18 (29.5 ft.)	NA	NA			
MTBE	na	na	NA	NA			
TPH- JP-5	11000	6200	NA	NA NA			
TPH - Diesel	26700 (10 ft.)	23000 (30 ft.)	NA .	NA			
TPH- Gasoline	2540 (5 ft.)	ND	NA	NA			
TPH as motor oil	na	28	NA	NA			
TPH (418.1)	18136 (5 ft.)	2770	NA	NA			

COMMENTS REGARDING INVESTIGATION AND REMEDIATION

Two USTs were removed and discolored soil was observed on the southwest and northwest sidewalls of the excavation. Three hand-auger borings were drilled to 20 feet deep. Based on the analytical results of the soil sampling, additional petroleum contaminated soil (200 yds³) was removed down to approximately 18 feet below grade. Nine confirmation soil samples were collected. Soil samples were analyzed by EPA method 8015m for TPH and method 8020 for BTEX. One sample was analyzed using the Synthetic Precipitation Leaching Procedure (SPLP). The excavation was backfilled with clean stockpiled soil, imported fill sand and road base material and compacted.

Five soil borings were drilled in the vicinity of the excavation to determine the vertical extent of the petroleum hydrocarbons in the soil. Two soil borings were drilled to 40 feet deep and three were drilled to 80 feet deep. Soil samples were collected and submitted for analysis. Groundwater was not detected at 80 feet.

The remaining petroleum concentrations do not appear to be a threat to groundwater, which is greater than 80 feet from the surface. Based on the information provided in the March 12, 1998, <u>Tank Removal and Site Closure Report for USTs</u> 762 and 672B, this site is recommended for closure.

IV. Closure

DOES COMPLETED CORRECTIVE ACTION PROTECT <i>EXISTING</i> BENEFICIAL USES yes PER REGIONAL BOARD BASIN PLAN?							
DOES COMPLETED CORRECTIVE ACTION PROTECT POTENTIAL BENEFICIAL USES yes PER THE REGIONAL BOARD BASIN PLAN?							
MONITORING WELLS DECOMMISSIONED	NUMBER DECOMMISS	NUMBER na NUMBER DECOMMISSIONED RETAINED					
LIST ENFORCEMENT ACTIO	ONS TAKEN	none					
LIST ENFORCEMENT ACTION	ONS RESCINDED	none					

V. Regional Board Representative Data

STAFF	Patricia Hannon	TITLE	Associate Engineering Geologist
SIGNATURE	Patrice Henron	DATE	3/3//99
SUPERVISOR	Michael Adackapara	TITLE	Senior WRC Engineer
SIGNATURE	maderaly	DATE	7/2/99